

**Claim Listing:**

This listing of claims will replace all prior versions and listings of claims in the application:

1. (Currently Amended)      A device ~~Device~~ for determining the absolute angular position of a turning device with respect to a fixed structure, ~~where~~ said device ~~includes~~ comprising:

an encoder adapted for rotation ~~together~~ with the turning device, wherein said encoder includes a main multipolar track and a top turn track which are concentric, and said top turn track includes M angular distributed singularities;

a fixed sensor arranged at a gap distance with regard to ~~a gap distance of~~ the encoder, the sensor including at least three sensing elements where at least two are positioned with regard to the main multipolar track so as to deliver two periodic signals S1, S2 in quadrature and at least one is positioned with ~~respect~~ regard to the top turn track so as to deliver an electrical signal S3, the sensor ~~includes~~ further including an electronic circuit capable of delivering, starting from the signals S1, S2 and S3, two squared digital position signals (A, B) in quadrature which are representative of the angular position of the turning device and one top turn signal (C) in the form of M pulses per revolution of the encoder;

~~[[one]]~~ a processing device ~~[[of]]~~ configured to process the signals (A, B, C) ~~which includes an appropriate~~ and including a means ~~[[of]]~~ for counting, to determine, starting from an initial position, variations of the angular positions of the encoder; and

means for measuring the angular position of the turning device with an angular uncertainty of  $\Delta\theta$  ~~in which  $\Delta T$  in which~~ the M singularities are each representative of an absolute angular position of the turning device and are distributed in the top turn track with an angular distribution between them which is greater than  $2\Delta\theta$  ~~than  $2\Delta T$~~ , wherein the processing device includes a means for updating the initial position, which upon detecting a pulse, is capable of discriminating the pulse detected as a function of the angular position coming from the means for measuring and assigning a value ~~the value to be assigned~~, with respect to the initial position, of the absolute angular position associated with said pulse.

2. (Currently Amended)      The device ~~Device~~ according to claim 1, ~~characterized that wherein~~ each main multipolar track is in the form of a magnetic ring on which equispaced North and South magnetic poles are magnetized with a constant angular width, and a magnetic singularity from the top turn track is formed from two adjacent poles where the magnetic transition is different from the others.

3. (Currently Amended)      A bearing ~~Bearing~~ equipped with a determination device according to claim 1, wherein the bearing is of the type including a fixed bearing race intended to be associated with a fixed device, a turning bearing race intended to be set in rotation by the turning device and bearings arranged between said bearing races, and wherein ~~said bearing is~~ ~~characterized in that~~ the encoder is associated with the turning bearing race.

4. (Currently Amended)      The bearing ~~Bearing~~ according to claim 3, ~~characterized in that~~ wherein the sensor is associated with the fixed bearing race.

5. (Currently Amended)      A steering ~~Steering~~ system for an automotive vehicle, wherein the steering system ~~characterized in that~~ it includes a determination device according to claim 1, and wherein the encoder is solidly in ~~rotation~~ rotational relationship with a vehicle steering wheel and the sensor is attached solidly to a vehicle chassis, so as to measure the absolute angular position of the steering wheel with respect to the chassis.

6. (Currently Amended)      The steering system ~~System~~ according to claim 5, ~~characterized in that the~~ further comprising a revolution or sector discrimination means that includes a means of analyzing ~~the differential~~ a differential speed of vehicle wheels.

7. (Currently Amended)      The steering system ~~System~~ according to claim 5, ~~characterized in~~ wherein the means for measuring the angular position includes an accelerometer or a gyroscope.

**Amendments to the Drawings**

The attached sheets of drawings include changes to Fig. 2. These sheets replace the original sheet including Figs. 1 – 2. In Figure 2, previously omitted labels (boxes 6 and 7) and signals (S1, S2, S3, A, B, C) have been added.

Attachment: Replacement Sheets

Annotated Sheets Showing Changes